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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 09/773,116 01/31/2001 Derek M. Dempsey CEO-011.01 5451 25181 **EXAMINER** 7590 04/20/2005 FOLEY HOAG, LLP HOLMES, MICHAEL B PATENT GROUP, WORLD TRADE CENTER WEST 155 SEAPORT BLVD ART UNIT PAPER NUMBER BOSTON, MA 02110 2121

Please find below and/or attached an Office communication concerning this application or proceeding.

1	Application No.	Applicant(s)
Office Action Summary	09/773,116	DEMPSEY ET AL.
	Examiner	Art Unit
The MAIL ING BATE of this communication and	Michael B. Holmes	2121
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE (3) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1)⊠ Responsive to communication(s) filed on <u>28 Seconds</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for alloware closed in accordance with the practice under Expression in the Expressi	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 15-22 is/are allowed. 6) ⊠ Claim(s) 1-10 and 14 is/are rejected. 7) ⊠ Claim(s) 11-13 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 01182005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: Detailed Office	ate datent Application (PTO-152)

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Examiner's Detailed Office Action

- 1. This Office Action is responsive to communication received on September 28, 2004.
- 2. Claims 1-22 have been examined.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. The invention as disclosed in claims 1-10 and 14 are rejected under 35 U.S.C. 101 as being non-statutory subject matter. While applicant's invention is directed towards technological arts. Applicant's claim language is not limited to practical applications. In particular, examiner has found the claimed subject matter, to be one of three exclusions recognized, outside the statutory category of invention, an abstract idea e.g., claim 1 & claim 14 recites a method for retraining a trainable data classifier that includes providing a first item of trainable data, and comparing the first item of training data with a second item of training data to provide a measure of conflict between the first and second items of training. Examiner contends that applicant's invention without mention of technology relates to a computational model or a mathematical

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manipulation of a function or equation. Moreover, a process that merely manipulates an abstract idea or performs a purely mathematical algorithm is nonstatutory despite the fact that it might inherently have some usefulness. In Sarkar, 588 F.2d at 1335, 200 USPQ at 139, the court explained why this approach must be followed:

No mathematical equation can be used, as a practical matter, without establishing and substituting values for the variables expressed therein. Substitution of values dictated by the formula has thus been viewed as a form of mathematical step. If the steps of gathering and substituting values were alone sufficient, every mathematical equation, formula, or algorithm having any practical use would be per se subject to patenting as a "process" under 101. Consideration of whether the substitution of specific values is enough to convert the disembodied ideas present in the formula into an embodiment of those ideas, or into an application of the formula, is foreclosed by the current state of the law.

Furthermore, for such subject matter to be statutory, the claimed process must be limited to a practical application of the abstract idea or mathematical algorithm in the technological arts. *See* Alappat, 33 F.3d at 1543, 31 USPQ2d at 1556-57 (quoting Diamond v. Diehr, 450 U.S. at 192, 209 USPQ at 10). *See* also Alappat 33 F.3d at 1569, 31 USPQ2d at 1578-79 (Newman, J., concurring) ("unpatentability of the principle does not defeat patentability of its practical applications") (citing O 'Reilly v. Morse, 56 U.S. (15 How.) at 114-19). A claim is limited to a practical application when the method as claimed, produces a concrete, tangible and useful result; i.e., the method recites a step or act of producing something that is concrete, tangible and useful. *See* AT &T, 172 F.3d at 1358, 50 USPQ2d at 1452. *See* MPEP § 2106(IV) Applicant is advised to make the appropriate corrections in an attempt to gain patentability. The claimed invention as a whole must accomplish a practical application. That is, it must produce a "useful, concrete and tangible result." *State Street*, 149 F.3d at 1373, 47 USPQ2d at 1601-02. Remember, the claims define the property rights provided by a patent, and thus require careful scrutiny.

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Therefore, it is not enough to set forth invention in the specification. The claims must also reflect the scope and breath of applicant's invention.

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- 5. Therefore, claims 1-10 and 14 are rejected under 35 USC § 101.
- 6. It should be noted that if the claimed subject matter were amended to recite the invention of which, being implemented on a computer or processor or computer-implemented method or process or whatever word(s) or phrase(s) the written description of the specification recites for that feature(s) of the computer. The rejection under 35 USC § 101 would be withdrawn. Moreover, if assistance is required or applicant would like to request a telephone interview, examiner may be reached at the contact information listed below.
- Regarding claims 11-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Finally, although the subject matter of claims 1-14 appears to define over the prior art. Any indication of allowability is being held in abeyance pending the resolution of the 35 USC § 101 issues.

Allowable Subject Matter

8. Claims 15-22 are allowed.

Correspondence Information

9. Any inquires concerning this communication or earlier communications from the examiner should be directed to Michael B. Holmes, who may be reached Monday through Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile transmission (571) 273-3686 or email Michael holmesb@uspto.gov.

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If you need to send an Official facsimile transmission, please send it to (703) 746-7239.

If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, Anthony Knight, may be reached at (571) 272-3687.

Hand-delivered responses should be delivered to the Receptionist @ (Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22313), located on the first floor of the south side of the Randolph Building.

Michael B. Holmes

Patent Examiner
Artificial Intelligence
Art Unit 2121

United States Department of Commerce Patent & Trademark Office

Monday, April 11, 2005

MBH